



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

APPLIED TECHNICAL SERVICES, INC.

Marietta, GA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 26th day of May 2010.

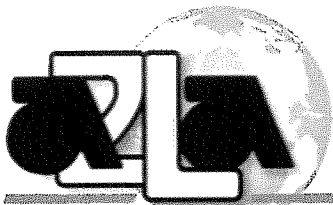




Peter Abney

President & CEO
For the Accreditation Council
Certificate Number 1888.01
Valid to January 31, 2012

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

APPLIED TECHNICAL SERVICES, INC.
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Marietta, GA 30062
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MECHANICAL

Valid To: January 31, 2012

Certificate Number: 1888.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following mechanical, metallurgical and environmental simulation tests on metallic and polymeric materials:

Test

Specification

Tensile Testing	ASTM E8, A370, B557, EN895, EN 10002
Brinell Hardness of Metallic Materials	ASTM E10, A370, ISO 6506-1
Image Analysis	ASTM E1245, E562
Rockwell Hardness of Metallic Materials (15N, 30N, 45N, 15T, 30T, 45T, A, B, C)	ASTM E18, A370
Microhardness of Materials	ASTM E384, E92, EN 1043-1, EN 1043-2, ISO 6507-1
Leeb Hardness	ASTM A956
Notched Bar (Charpy) Impact	ASTM E23, EN 10045-1, ISO 148-1
Bend Testing	ASTM E290, A370, EN910
Fastener Testing, Tensile (Axial/Wedge), Proof	ASTM F606 (M), SAE J429
Inclusion Evaluation	ASTM E45, E3
Microstructure of Graphite in Iron	ASTM A247
Grain Size	ASTM E112
IGA Susceptibility	ASTM A262
Metal and Oxide Coating Thickness	ASTM B487, B748(SEM)
Coating Weight	ASTM A90
Anodizing Coating Weight	ASTM B137
Decarb Depth	ASTM E1077
Hydrogen Embrittlement	SAE J81, ASTM F519
Tape Adhesion	ASTM D3359, FLTM BI 106, GM 9502P
Specular Gloss	ASTM D523
Color	ASTM D2244
Pencil Hardness	ASTM D3363
Salt Spray	ASTM B117, FLTM BI 103, GM 4298P, DIN 50021
Coating Thickness	ASTM D7091

Test**Specification**

Impact	ASTM D2794
CASS	ASTM B368
Humidity (Condensing)	ASTM D2247 D4585
Water Fog	ASTM D1735, GM 4465P
Xenon Arc Weathering	ASTM G155, SAE J2527, J1885
U.V Fluorescent	ASTM G154
Cyclic Salt Fog	ASTM G85, GM 9540P, SAE J1563
Gravelometer	ASTM D3170, SAE J400
Taber Abrasion	ASTM D4060
Conical Mandrel	ASTM D522
Flammability of Interior Materials	FMVSS 302
Flammability of Clothing Textiles	16 CFR 1610, ASTM D1230
Flammability of Plastic Materials	UL 94
Temperature/Humidity Cycling	GM 9505P, IEC 68-2-30, BMW TS 308, PrV303
Failure Investigation	ATS Proc. 931
Izod Impact (Method A)	ASTM D256
Flexural Properties	ASTM D790
Compressive Properties	ASTM D695
Compression Set	ASTM D395
Tear Resistance	ASTM D624
Heat Deflection Temperature	ASTM D648
Environmental Conditioning of Plastics	ASTM D618
Tensile Properties of Plastics	ASTM D412, D638
Durometer (Shore A & D)	ASTM D2240
Melt Flow	ASTM D1238
Coating Thickness (XRF method)	ASTM B568
Acid Dissolution Testing of Anodic Coatings	ASTM B680
Conductivity Measurement	ASTM E1004
Pacifier Testing	16 CFR 1511
Rattle Testing	16 CFR 1510
Small Parts Testing	ASTM F963 (Sections 8.5 to 8.13 for areas 4.2, 4.23, 4.6, 4.7, and 4.9.1), 16 CFR 1500, 16 CFR 1501
Toy Safety Testing	ASTM F963 (Sections 4.5, 4.8, 4.12, 4.13, 4.14, 4.17, 4.18, 4.19, 4.21, 4.22, 4.24, 4.27, 4.31, 4.32, 4.35, 4.36, 4.38, 5, 6, 8.11, 8.14, 8.19)
Full Size and Non-Full Size Crib Testing	16 CFR [Parts 1508, 1500.18(a)(13&14), 1509]
Bunk Bed Testing	16 CFR Part 1213
Dive Stick Testing	16 CFR [Parts 1500.18(a)(19), 1500.86(a)(7&8)]
Small Balls and Marbles	ASTM F963 (Sections 4.33, 4.34), 16 CFR Part 1500.19
Baby Walkers and Bouncers	16 CFR (Part 1500.18(a)(6) and Part 1500.86(a)(4))
Shock & Vibration	Customer Profiles
Single Axis, with Slip Table	MIL-STD-810
20 000 lbf shock	
12 000 lbf	
(5 to 2000) Hz	
Sine and Random	
2 in peak to peak	
Mechanical Testing of Bicycle Helmets	16 CFR 1203

Tests also performed in accordance with customer and industry standards directly related to the above listed testing parameters.

